Living Lunch Lab Report Assessment

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| Criteria D – Scientific Inquiry | State a focused research question to be tested by an investigation |
| Judge the validity of a hypothesis based on the outcome of the investigation |
| Formulate a hypothesis and explain it using scientific language |
| Suggest improvements to the method or further inquiry when relevant |
| Collect and record data |
| Criteria E – Processing Data | Draw conclusions consistent with the data and supported by scientific reasoning |
| Analyze and interpret data |
| Organize and present data using numerical and visual forms |

Your task is to put together a lab report following the handout provided to you. The lab report should include the information gathered from your observations.

Within the conclusion you should answer the following questions:

1. Which conditions produced the most mould?
2. Which conditions produced the least mould?
3. What do food moulds have in common?
4. What differences did you see in the food moulds?

Within the evaluation of the lab answer the following questions:

1. Did any results surprise you?
2. What were some problems that you encountered in this experiment? How could they be overcome?
3. A reliable scientific result is one that can be repeated using the same conditions. Would you consider this lab to have reliable results? If not, why?
4. What advice would you give to families about the best way to provide school sandwich lunches?

**Criterion D – Scientific Inquiry**

**Achievement Level**

Descriptor

**0**

The student does not reach a standard described by any of the descriptors below.

**1-2**

You are able to make some attempt to suggest a research question for you investigation. You are able to make an attempt with writing a plan for your investigation. In your evaluation you are able to answer the questions stated above but in a very limited way.

**3-4**

You are able to suggest a reasonable research question for you investigation. You are able to write a mostly workable plan for your investigation, showing some understanding of fair testing. In your evaluation you are able to answer the questions stated above showing understanding of the concepts.

**5-6**

You are able to suggest a suitable research question for your investigation and make a prediction for what results you might obtain. You are able to write a workable plan for the investigation, showing good understanding of fair testing. In your evaluation you are able to answer the questions stated above showing a deep understanding of the concepts.

**Criterion E – Processing Data**

**Achievement Level**

Descriptor

**0**

You do not reach a standard described by any of the descriptors below.

**1-2**

You are able to collect some data from an experiment. You are able to present the data in a simple results table, and make some attempt to draw a simple type of graph. You attempt to comment on the relationships in the data but probably in a very limited way. You attempt to draw a conclusion, but it is likely does not show a proper interpretation of the data.

**3-4**

You are able to collect a considerable amount of data using appropriate units. You are able to make a reasonable effort to present your data in a suitable table, and draw suitable graphs or charts. You are able to describe almost correctly the relationship shown in the data from the experiment. You are able to draw a conclusion generally consistent with the interpretation of the data.

**5-6**

You are able to collect a considerable amount of data using appropriate units. You are able to present your data in a suitable table, do any calculations that are necessary, and draw suitable graphs or charts. You are able to describe correctly the relationship show in the data from the experiment. You are able to draw a conclusion consistent with the interpretation of the data.